

# G-5

## Installation Guide



**LIVEVIEWGPS**

## Activation

Activate your account prior to installing your tracking device.

Visit [www.LiveViewGPS.com](http://www.LiveViewGPS.com) And Choose The "Activate" Link At The Top Right Of The Site.

Select The "G5" Link And E-Sign Your Activation Form. This process takes about 3 minutes.

Activations are done from 7 am - 4 pm PST. Once your activation has been processed we will email you your username/password and URL for login. The entire process can take between 1 - 3 hours.

All activations are billed on a pro-rated term for the current month of service. We will auto-bill you on the first of every month.

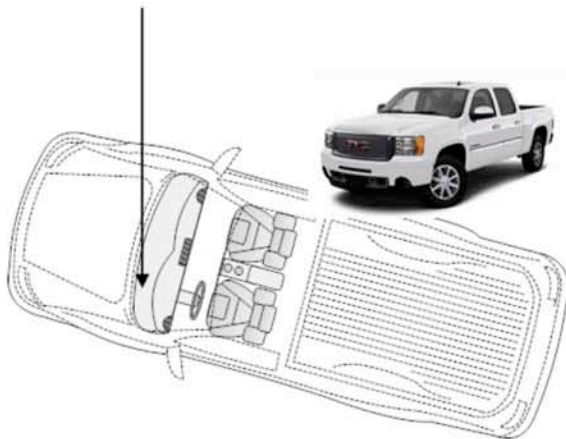
If you wish to cancel, please submit your request to us no later than the 25th day of the month you wish to discontinue service. A service cancellation form is available at [www.LiveViewGPS.com](http://www.LiveViewGPS.com) - top right of site "Cancel".

## Installation

Installation of your LiveViewGPS - G5 Live Trac Vehicle Tracking device is as easy as it gets - just follow these three easy steps:

**Step 1.** Place the device on your dash at the base of the windshield.

### Optimal Device Placement



For optimal operation, the G5 should be placed with the top side of the device facing the sky.

**Step 2.** Run the cables along the side of the dash at the door hinge, and place the transceiver box under your dash. For best results, consider using a zip-tie to secure the transceiver to ensure it doesn't fall from beneath the dash.

**Step 3.** Securely Attach The Wiring Harness To The G5 Transceiver. Connect the Following Wires:

RED	12 VDC Constant
WHITE	Ignition/Accessory
BLACK	Ground

**Note:** We Strongly Recommend Getting Your Power Directly Off The Ignition Column – Most Vehicles Have Constant Power & An Ignition #1 Wire There.

**Note:** Never Connect The White & Red Wire Together & Attach To A Constant Power Source! The White Wire Must Be Attached To An Ignition/Accessory Wire.

## Covert Installation

Many clients prefer to have the G5 installed where the device & transceiver are hidden from view.

The device of the G5 can be placed under the dashboard of most vehicles and trucks (some high end imports, like Mercedes Benz) have a metal foil under the dash – in which case an under dash mount will not work.

**Note:** GPS signal will penetrate glass, plastic, foam, fiberglass and wood. GPS signal will NOT penetrate metal, for this reason it is important to place the device with no metal or wiring between it and the sky.

## Proper Device Placement

While installation of our vehicle tracking system is a simple three step process, the fact remains that proper device placement is crucial to uninterrupted operation.

For optimal device placement the top of the G5 should be placed under a surface that is not obstructed by metal. Like under the instrument cluster of dashboard.

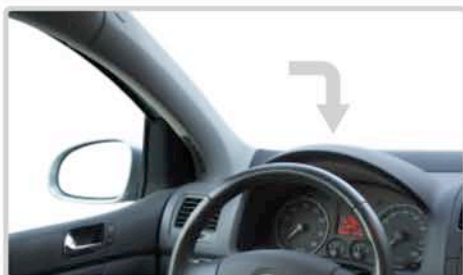
Our testing has shown that the G5's chipset is superior to first and second generation GPS devices. On one of our tests, we installed the G5 in the center console of a vehicle in a horizontal fashion and the G5 performed flawlessly when acquiring satellites for position fixes.

**Note:** As much as possible, keep the G5 and its lead wires away from any electronics, like radios, GPS navigation devices, wireless GSM network cards, as well as speakers and speaker wire. This will eliminate any possibility of GSM feedback when the device is transmitting.

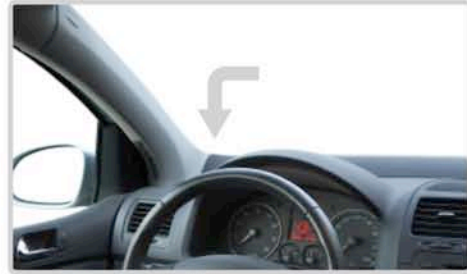
*Base of windshield, no metallic obstructions (windshield wipers, wires, etc.).*



*Above and forward of instrument cluster hidden under dash.*



*Base of windshield, with device either exposed or hidden.*



*Exterior mount or under fiberglass cab.*



*Water resistant - exterior or interior mount on a boat.*



*Hidden on your motorcycle.*



## Device Specifications

### PHYSICAL SPECIFICATIONS

Dimensions	2.5 x 3.125 x 0.875 inches 63.5 x 80 x 23 mm
Weight	3 ounces (internal) 85 grams (internal)
GPS device conn.	Internal
Cellular device conn.	Internal
Status LEDs	GPS and Cellular

### ELECTRICAL SPECIFICATIONS

Operating Voltage	6 to 32 VDC
Power Consumption	
Deep Sleep	<1 mA @ 12V
Sleep on Network	<10mA @ 12V
Active Standby	<70mA @ 12V

### ENVIRONMENTAL SPECIFICATIONS

Operating	-22° to 167°F (-30°C to 75°C)
Storage	-40° to 185°F (-40°C to 85°C)
Humidity	95%RH @ 122°F non-condensing
Shock and Vibration	SAE J1455
EMC/EMI	SAE J1113
RoHS Compliant	

### GPS TECHNOLOGY

GPS	50 channel (with WAAS)
Sensitivity	-160dBm tracking
Horizontal Accuracy	3 meter CEP (with SA off)

### GSM SPECIFICATIONS

Comm. Modes	GPRS packet data and SMS
Data Support	SMS, GPRS (UDP)
Cellular/PCS	FCC - Parts 22, 24; PTCRB
GPRS	Up to class 12
Quad Band	850/900/1800/1900 MHz

### COMPREHENSIVE I/O

Inputs	
Status LEDs	GPS and Cellular

### MOUNTING

Standard Tie-wrap or Screw Mount

## Installation Best Practices

Power for the G5 should be taken directly off of the ignition column.

There you will find constant power and ignition. This is the cleanest source of power for the device.

As much as possible, keep all G5 system wires away from speakers and speaker wires, as well as high powered electrical components.

Do not use the radio as a source of power for any of the power leads to the G5, interference may result.

We recommend using the “poke and wrap” wiring technique, or soldering connections for permanent installations.

## Technical Support

Please contact us toll free 1-888-544-0494 or direct at 1-661-294-6805, Monday Through Friday From 7 am - 5 pm PST.

You can also email: [info@liveviewgps.com](mailto:info@liveviewgps.com) for any support questions.

## Professional Installation

On-site professional installation is available nationwide.

Please contact us if you would like to arrange for installation.



## Troubleshooting Guide

By nature, any device placement will deteriorate signal reception even if only slightly.

If installed too far below the dash, the device may still function in areas where strong wireless data coverage is available. Despite the fact that it functions, such poor device placement may deteriorate signal quality from 5 bars to only 2 bars (hypothetical). In such an installation where the installation deteriorates signal quality by 3 bars, when your vehicle moves into an area where wireless data coverage only provides 4 bars of service, your device would have only 1 bar of service. Similarly, in an area where wireless coverage provides only 3 bars of service, your device would be unable to communicate due to signal deterioration based on poor device placement.

It is for this reason that a quality install and good device placement is critical.

Our objective is to install the device in a place where signal deterioration is kept to an absolute minimum.

## Common Problems

### 1. The map shows my vehicle to be stopped, but the vehicle is moving.

Answer: This is caused by either of two potential issues:

- 1) The device is not transmitting.
  - a) Poor (or no) wireless data coverage
  - b) Poor device location resulting in deteriorated wireless data signal
- 2) The GPS unit cannot see the sky (If lat=0 and lon=0, the unit will not transmit)
  - a) Device facing downward
  - b) Poor device placement (GPS device cannot see sky through metal)
  - c) Device is placed too far below the dash to have a good view of the sky.
  - d) On a new install, it may take several minutes for the GPS to establish location.

**Note:** The unit transmits more frequently when the vehicle is moving.

- The device transmits every 30 minutes if the vehicle is stationary.
- The device transmits every 5 (or 10) seconds if the vehicle is moving.

### 2. The system shows my vehicle to be hundreds of yards from its actual location.

Answer: The GPS unit does not have a good view of the sky.

1) Under normal circumstances (with a good view of the sky) our devices are accurate to within 10-12 inches. There are 26 satellites in the GPS constellation. The more satellites the device can see, the more accurate the location.

2) When vehicles are parked facing tall buildings (or in indoor garages or under metal awnings) large portions of the sky are often obscured.

3) Device placement is critical to ensure reliable and accurate operation.

### 3. When the device came on this morning, it showed the location from (another time).

Answer: The white wire is not correctly connected to the accessory 12v (ignition) power source. When the device shuts down, it stores its last known location in a buffer. If the white wire is not connected, the device cannot perform a graceful shutdown and thus cannot store its last known location properly.

### 4. I log in, and all I get is a map of the US. My vehicle doesn't show.

Answer: In almost every case, this is because it's a newly installed device and the unit hasn't yet transmitted its first packet of data (and thus cannot appear on the map because we don't yet know its location). It generally takes approximately 5 minutes after a new device has been powered up to begin transmitting.

This process can be hastened by driving the vehicle. Under normal circumstances, the device transmits every 5-10 seconds (depending on your wireless plan) when the vehicle is moving, but only once every 15-30 minutes if the vehicle is stationary. For this reason, it could take up to 30 minutes to make its first transmission if the vehicle remains stationary.

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U.S. Patent Number 5,963,956 and 6,647,269. U.S. Patents Pending.

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### WARRANTY COVERAGE

LiveViewGPS, Inc. (LVGPSI)'s warranty obligations for this G5 series tracking unit are limited to the terms set forth below:

LVGPSI warrants the LVGPSI G5 series tracking unit against defects in materials and workmanship for a period of one (1) year from the date of original purchase ("Warranty Period").

Specifically, the date the equipment is shipped to the customer. If a defect arises and a valid claim is received by LVGPSI within the Warranty Period, at its option, LVGPSI will (1) repair the product at no charge, using new or refurbished replacement parts, (2) exchange the product with a product that is new or which has been manufactured from new or serviceable used parts and is at least functionally equivalent to the original product, or (3) refund the purchase price of the product.

LVGPSI warrants replacement products or parts provided under this warranty against defects in materials and workmanship from the date of the replacement or repair for ninety (90) days OR for the remaining portion of the original product's warranty, whichever provides longer coverage for you. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes LVGPSI's property. When a refund is given, your product becomes LVGPSI's property.

This Limited Warranty does not apply to any non-LVGPSI hardware product or any software.

LVGPSI is not liable for any damage to or loss of any programs, data, or other information stored on any media contained within the vehicle tracking or navigation systems.

This warranty does not apply: (a) to damage caused by accident, abuse, misuse, misapplication, or non-LVGPSI products; (b) to damage caused by electrical connection not conforming to instructions; (c) to a product or a part that has been modified without the written permission of LVGPSI; (d) if any LVGPSI serial number has been removed or defaced; (e) in the event of interruption or discontinuation of GPS satellite signal; or (f) in the event of interruption or discontinuation of the wireless coverage.

To the maximum extent permitted by law, this warranty and the remedies set forth above are exclusive and in lieu of all other warranties, remedies and conditions, whether oral or written, express or implied. LVGPSI specifically disclaims any and all implied warranties, including, without limitation, warranties of merchantability and fitness for a particular purpose. If LVGPSI cannot lawfully disclaim or exclude implied warranties under applicable law, then to the extent possible any claims under such implied warranties shall expire on expiration of the warranty period. No LVGPSI reseller, agent, or employee is authorized to make any modification, extension, or addition to this warranty.

### SPECIFIC LIMITATION OF LIABILITY

To the maximum extent permitted by law, LVGPSI assumes no liability for direct, special, incidental or consequential damages of any kind under any circumstance resulting from the use of or inability to use LVGPSI products. Use of LVGPSI products constitutes your agreement to and acceptance of this limitation of LVGPSI liability.

As a knowledgeable and informed person, the user specifically acknowledges LVGPSI is not responsible for direct, special, incidental or consequential damages resulting from any breach of warranty or condition, or under any other legal theory, including any costs of recovering or reproducing any program or data stored in or used with the LVGPSI product, and any failure to maintain restricted airtime usage or failure to maintain the confidentiality of data stored on the product. LVGPSI specifically does not represent that it will be able to repair any product under this warranty or make a product exchange without risk to or loss of programs or data.

### OBTAINING WARRANTY SERVICE

Please email [info@liveviewgps.com](mailto:info@liveviewgps.com) with your LVGPSI model and serial number, and describe the anomaly in detail. LVGPSI will respond to your email with proper user diagnosis and repair or provide you with an authorization number and instruction for shipment for authorized repair. Use care and original shipping container to prevent shipping damage. No repair work will be done and your tracking unit will not be returned if an authorization number is not obtained in advance.

*Thank You For Your Purchase! We Strive For Complete Customer Satisfaction, & Superior Customer Service. Please Do Not Hesitate To Contact Us.*



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